



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 2314

SERIAL NUMBER 10/043,597	FILING DATE 01/09/2002	CLASS 711 360	GROUP ART UNIT 2185 2651	ATTORNEY DOCKET NO. Q02-1001-US1
-----------------------------	---------------------------	---------------------	--------------------------------	-------------------------------------

## APPLICANTS

Dan Gunderson, Westminster, CO;  
 Doug Gunther, Westminster, CO;

\*\* CONTINUING DATA \*\*\*\*\**None*\*\* FOREIGN APPLICATIONS \*\*\*\*\**None*

## IF REQUIRED, FOREIGN FILING LICENSE GRANTED

\*\* 02/13/2002

Foreign Priority claimed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY CO	SHEETS DRAWING 4	TOTAL CLAIMS 36	INDEPENDENT CLAIMS 3
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after				
Verified and Acknowledged	<i>Markus Gunderson</i> Examiner's Signature	Initials			

## ADDRESS

DEBRA CHUN  
 QUANTUM CORPORATION  
 501 SYCAMORE DRIVE  
 MILPITAS, CA 95035

## TITLE

Enhanced read margining using dither enhanced write marginalization for mass data storage applications

FILING FEE RECEIVED 1158	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
-----------------------------	---	---